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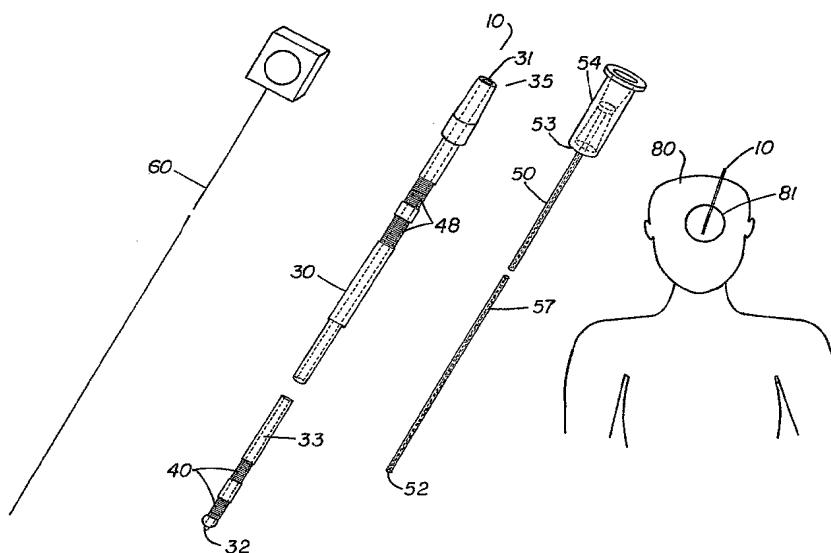
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(54) Title: INTRACRANIAL CATHETER ASSEMBLY FOR PRECISE TREATMENT OF BRAIN TISSUE



(57) Abstract: A catheter assembly (10) for intracranial treatment of a patient is disclosed. The assembly comprises an outer catheter (30) and an inner catheter (50). The outer catheter includes a proximal opening (31), at least one aperture (32), a lumen (33) connecting the opening and the aperture, and at least one element (40). The inner catheter (50) is adapted to be received within the lumen and includes a passageway (51) and at least one port (52) for transferring fluids between the inner catheter and a tissue region (81) within the patient's brain (80). The assembly facilitates regular accurate placement of the drug delivery catheter at the tissue region without additional extended contact with the brain during insertion.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10788

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 31/00, 5/178; A61F 13/15; A61B 5/05; A61N 1/00

US CL : 604/500,164.09,378; 606/411,424; 607/116

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,203,526 B1 (McBeth et al.) 20 March 2001 (20.05.2001), column 4, line 8- column 13, line 50.	1-2,5,19,21-24,26,33-36,39-43
Y	US 5,792,110 A (Cunningham) 11 August 1998 (11.08.1998), column 11, lines 1-15	3,4,7,20,38
Y	US 6,210,346 B1 (Hall et al.) 3 April 2001 (03.04.2001), Figure 1	11,25
Y	US 5,441,481 A (Mishra et al.) 15 August 1995 (15.08.1995), column 5, lines 1-17	13,37
Y	US 5,087,244 A (Wolinsky et al.) 11 February 1992 (11.02.1992), column 2, lines 7-11	15,16
Y	US 5,975,085 (Rise) 02 November 1999 (02.11.1999), column 8, lines 32-43 and column 2, lines 34-50	6-18,27-32

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"P"	document published prior to the international filing date but later than the priority date claimed		

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